

recretional grass coverage and sewer lines.

City of Sebree Water Department Water Quality Report for year 2014

Sebree, Kentucky 42455

City Hall 36 S. Spring Street Meetings:

Meeting Dates and Time: The first Monday of each month KY1170388

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This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide our customers with a safe, clean,

and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product. Water is

the most indispensable product in every home and we ask everyone to be conservative and help us in our efforts to protect the water source and the water system.

The source of your drinking water is surface water from the Green River, located at approximately river mile marker 41.3 or 9000 Hwy 2096 in Robards, Kentucky. The area around your water source is mostly residential, but contains some industry, and, agricultural. The final source water assessment of this system has been completed and is

contained in the Main office of Henderson Water Utility, Henderson County Water District, or at the Green River Area Development District office in Owensboro, Kentucky.

An analysis of the susceptibility of Henderson's Ohio River and Green River water supplies to contamination indicates that this susceptibility is generally moderate. However, there are a few areas of high concer. Concerns include beidges, waste generators or transporters, landfills, river ports, a railroad, row crop land coverage, urban and

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791)

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and may pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants, such as viruses and bacteria, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities).

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means

to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791). Some or all of these definitions may be found in this report:

Maximum Contaminant Level (MCL) - the highest level of a contaminant that is allowed in drinking water. MCLs are If present, elevated levels of lead can cause set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL) - the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial

Below Detection Levels (BDL) - laboratory analysis indicates that the contaminant is not present.

Not Applicable (N/A) - does not apply.

Parts per million (ppm) - or milligrams per liter, (mg/l). One part per million corresponds to one minute in two years or a single penny in \$10 000

Parts per billion (ppb) - or micrograms per liter, (μ g/L). One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in

Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) - a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity has no health effects, However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the

Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a

Treatment Technique (TT) - a required process intended to reduce the level of a contaminant in drinking water.

Information About Lead:

serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Your local public water system is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or http://www.epa.gov/safewater/lead.

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old. Unless otherwise noted, the report level is the highest level detected.

	Allowable Levels		Highest Single Measurement		- 1	Lowest Monthly %	Violation	Likely Source	
Turbidity (NTU) TT	No more that				1.20	, ,,		Zinei, Source	
* Representative samples	Less than 0.3 NTU in		0.283			100	No	Soil runoff	
of filtered water	95% of mon	thly samples							
Regulated Contaminant Test	-	J 1			_!				
Contaminant			Report	l	Range		Date of	Violation	Likely Source of
[code] (units)	MCL	MCLG	Level	of Detection		Sample		Contamination	
Radioactive Contaminants			1						•
Combined radium	5	0	1.1	1.1	to	1.1	Aug-14	No	
(pCi/L)									Erosion of natural deposits
Inorganic Contaminants	<u>I</u>								!
Asbestos									
(MFL)	7	7	0.102	0.102	to	0.102	June-11	No	Decay of asbestos cement water mains; erosion of natural deposits
Barium									
[1010] (ppm)	2	2	0.033	0.033	to	0.033	Nov-14	No	Drilling wastes; metal refineries; erosion of natural deposits
Copper [1022] (ppm)	AL=		0.067						Corrosion of household plumbing
sites exceeding action level	1.3	1.3	(90 th	0.006	to	0.157	Aug-13	No	systems
0			percentile)						
Fluoride [1025] (ppm)	4	4	0.994	0.968	to	0.994	Nov-14	No	Water additive which promotes strong teeth
Nitrate									
[1040] (ppm)	10	10	2.24	1.6	to	2.24	March-14	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Disinfectants/Disinfection By	products and	Precursors							1
Total Organic Carbon (ppm)	<u> </u>		2.06						
(measured as ppm, but	TT*	N/A	(lowest	1.26	to	3.67	N/A	No	Naturally present in environment.
reported as a ratio)			average)	(mon	thly rati	os)			
*Monthly ratio is the % TOC re	emoval achiev	ed to the % TOC 1					ratios must be 1	.00 or greater	for compliance.
Chlorine	MRDL	MRDLG	1.30			-			
(ppm)	= 4	= 4	(highest	0.15	to	1.98	N/A	No	Water additive used to control
ree /			average)						microbes.
Chlorite	1	0.8	0.630	0.15	to	0.70	Jan-14	No	Druggeduat of dejeting contain
(ppm)			(average)		-			1	Byproduct of drinking water disinfection.
Chlorine dioxide (ppb)	MRDL	MRDLG	470				1		
Cinornic dioxide (ppo)	= 800	= 800	1 7,0	0	to	470	April-14	No	Water additive used to control microbes.
HAA (ppb) Stage 2	800	300	46			170	7 1pr 11 - 1 - 1	110	microbes.
[Haloacetic acids]	60	N/A	(Hiighest Location	20 1	to	48	N/A	No	Byproduct of drinking water
(Individual Sites) Sebree	00	11/71		(range of i			1 1//1	I NO	disinfection
TTHM (ppb) Stage 2			Average)	(range of	marvidu	ai sites)			
[total trihalomethanes]	80	N/A	(Hiighest Location	17	to	67	N/A	No	Byproduct of drinking water
(Individual Sites) Sebree			Average)	(range of					disinfection.
()			····ciage)	(1		55)	<u> </u>		<u> </u>

In 2014 the City of Sebree Water Department received a Notice of Violation (NOV) from Kentucky Division of Water. We failed to take include all the information on the table to our 2013 Consumer Confidence Report (CCR). "The copper 90th percentile is missing from the table". There were no health effects due to this oversight. Remedial actions included detailing this violation in the 2014 CCR.